

PATENT

Case Docket No.: ASMMC.030AUS

Date: April 12, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Bondenstam et al.
Appl. No. : 09/801,542
Filed : March 7, 2001
For : ALD REACTOR AND
METHOD WITH
CONTROLLED WALL
TEMPERATURE
Examiner : Unknown
Group Art Unit : Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on

April 12, 2001

(Date)

Adeel S. Akhtar, Registration No. 41,394

TRANSMITTAL LETTER

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) A Supplemental Information Disclosure Statement.
- (X) A PTO Form 1449 with forty-six (46) references.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410. A duplicate copy of this sheet is enclosed.
- (X) Return prepaid postcard.

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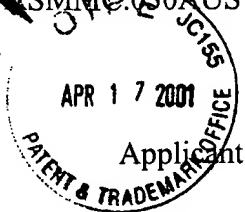
Adeel S. Akhtar
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Attorney of Record

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)	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

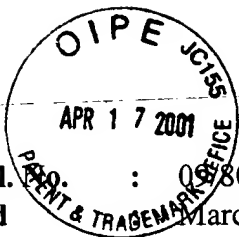
Enclosed is form PTO-1449 listing forty-six (46) references that are also enclosed.

In addition to the references listed in Form PTO-1449, Applicants would like to make of record the shipment of a Pulsar™ 2000 reactor to a U.S. company on March 28, 2000. The Pulsar™ 2000 reactor is described in Finnish Patent Application No. 991078, filed May 10, 1999 and in U.S. Patent Application No. 09/568,077, filed May 10, 2000, to which the present application is related.

The Pulsar™ 2000 reactor that was shipped contained one heater for the susceptor plate holding the wafer and two heaters for the top plate of the reaction chamber. There was a thermocouple connected to each heater to monitor the heater temperature. In addition, one thermocouple measured the top plate temperature and one thermocouple measured the susceptor temperature. Further, there was one independent thermocouple monitoring the top plate temperature to protect the reactor against overheating. Altogether there were three heaters and six thermocouples near the reaction chamber. However, the user could set only one target

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temperature, thus heating the entire reaction chamber, including the substrate, to a uniform temperature. The Pulsar™ 2000 reactor also had a water-cooled pressure chamber around the reaction chamber to keep the external surface cool enough to prevent burning the operator of the reactor. An F200 reactor with a similar heating system was shipped to countries other than the U.S. prior to the filing date of the present application.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410. A duplicate copy of this Statement is enclosed for that purpose.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: April 12, 2001

By: Adeel S. Akhtar

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